3
628.161
M86 gsr
March 1991

PLEASE RETURN

ENVIROCON, INC.

101 INTERNATIONAL WAY
POST OFFICE BOX 8243
MISSOULA, MONTANA 59807
TELEPHONE: (406) 523-1150
FAX: (406) 721-4794

ENVIROCON, INC.

July 19, 1991

STATE DOCUMENTS COLLECTION

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Solid and Hazardous Waste Bureau
Department of Health and
Environmental Sciences
Cogswell Building
Helena, Montana 59620

Attention: Mr. John Wadhams

Subject: March 1991 Ground Water Sampling Results

Dear John:

On March 21 and 22, 1991, Burlington Northern Railroad Co., through its contractor Envirocon, Inc., collected two ground water samples as part of the March 1991 monthly ground water sampling round. These samples were collected at Wells LG-10 and 89-2. The B Street Municipal Well could not be sampled during March because it was not operating.

The two samples were analyzed for purgeable halocarbons by EPA Method 601 at Energy Laboratories, Inc. in Billings, Montana.

No detectable concentrations of purgeable halocarbons were found in the samples collected during the March 1991 sampling round. Complete sample analytical results are enclosed.

Montana State Library
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If you have any questions, please contact me at your convenience.

Sincerely,

ENVIROCON, INC.

John Mills
Hydrogeologist

Kris Kok
Project Manager

JPM\pm
Enclosures
cc: Mel Burda
Steve Pilcher
Dennis Iverson
Mike Stevenson

ENERGY LABORATORIES, INC.
PO. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
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Livingston, Mt.

ENVIROCON
PO BOX 1154
LIVINGSTON MT 59047

Water Analysis

PROJECT: Livingston /BN

LG-10 | 89-2 | LG-10 Duplicate

LAB NO.	91-11600	91-11601	91-11600
SAMPLE IDENTIFICATION	140101-708	140101-709	140101-708
SAMPLE SUBMITTED	03/25/91	03/25/91	03/25/91
DATE REPORTED	04/04/91	04/04/91	04/04/91
SAMPLE DATE	03/22/91	03/21/91	03/22/91
SAMPLE TIME	10:15	11:16	10:15
CONSTITUENT	ug/l	ug/l	ug/l
Purgeable Halocarbons EPA Method 624			
Bromodichloromethane	<1.0	<1.0	<1.0
Bromoform	<1.0	<1.0	<1.0
Bromomethane	<1.0	<1.0	<1.0
Carbon tetrachloride	<0.50	<0.50	<0.50
Chlorobenzene	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0
2-Chloroethylvinyl ether	<1.0	<1.0	<1.0
2-Chlorotoluene	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0
Chloromethane	<1.0	<1.0	<1.0
Dibromochloromethane	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<0.50	<0.50	<0.50
1,1-Dichloroethane	<1.0	<1.0	<1.0
1,2-Dichloroethane	<0.50	<0.50	<0.50
1,1-Dichloroethene	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0

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Water Analysis

PROJECT: Livingston /BN

PAGE 2

LG-10 | 89-2 | LG-10 Dup

LAB NO.	91-11600	91-11601	91-11600 Duplicate
SAMPLE IDENTIFICATION	140101-708	140101-709	140101-708
SAMPLE SUBMITTED	03/25/91	03/25/91	03/25/91
DATE REPORTED	04/04/91	04/04/91	04/04/91
SAMPLE DATE	03/22/91	03/21/91	03/22/91
SAMPLE TIME	10:15	11:16	10:15
CONSTITUENT	ug/l	ug/l	ug/l
Purgeable Halocarbons EPA Method 624			
1,2-Dichloropropane	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	<1.0	<1.0	<1.0
Methylene chloride	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0
Tetrachloroethene	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	<1.0	<1.0	<1.0
Trichloroethene	<0.50	<0.50	<0.50
Trichlorofluoromethane	<1.0	<1.0	<1.0
Vinyl chloride	<0.50	<0.50	<0.50
Dichlorodifluoromethane	<1.0	<1.0	<1.0

NOTE: This analysis is equivalent to EPA Methods 601/8010.

Q.A. Review: Jon Stanley

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WATER VOLATILE SURROGATE RECOVERY

PROJECT: Livingston/BN

SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#
91-11599	82	110	110
91-11600	83	94	88
91-11600 dup	101	105	115
91-11601	97	104	113

	QC LIMITS
S1 (TOL) = Toluene-d8	(80-120)
S2 (BFB) = Bromofluorobenzene	(80-120)
S3 (DCE) = 1,2-Dichloroethane-d4	(80-120)

Column to be used to flag recovery values with an asterisk

* Values outside of contract required QC limits

Q.A. Review: Joe Stoulis